

1,040,333



PATENT SPECIFICATION

DRAWINGS ATTACHED

1,040,333

Date of filing Complete Specification: June 14, 1963.

Application Date: March 16, 1962.

No. 10262/62.

Complete Specification Published: Aug. 24, 1966.

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Index at acceptance:—A4 B5A1X

Int. Cl.:—A 47 f 5/08

COMPLETE SPECIFICATION

Improvements in Clip-Action Stowage Brackets for
Elongated Articles, for example Small Arms

I, NOEL HENRY NASH, a British subject of 12, Billet Avenue, Waterlooville, Hampshire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly in and to the following:—

PATENTS ACT, 1949

SPECIFICATION NO. 1,040,333

The following amendments were allowed under Section 29 on 24th January, 1968

Page 1, line 45, page 3, line 7, *delete* full stop insert ", the outer ends of the strip being free to move away from each other upon forces being applied to the strip, and the strip having portions inward of the inner gap which are mutually divergent and free to move away from each other upon forces being applied to the strip"

Page 1, line 51, page 3, line 13, *after* "another" *delete* "and" insert comma

Page 1, line 52, page 3, line 14, *after* "plates" *delete* full stop insert ", and the spaces between the two plates which register with the outer ends and the said portions of the strip being unoccupied"

Page 1, line 53, *delete* "in either form, the" insert "The"

THE PATENT OFFICE,
1st March, 1968

D 101742/25

may be secured firmly in position in a manner which will enable them to be removed expeditiously.

- 30 Accordingly the present invention provides a clip-action stowage bracket comprising a substantially U or V-shaped rigid body incorporating a wall or like mounting rigid with the body, the limbs of the U or V carrying
- 35 spring metal strip extending in a sinuous path along both limbs so that opposing surfaces of the strip provide a plurality of gaps of waisted form between themselves of width less than the distance between the limbs at the corresponding positions therealong, at each of
- 40 which gaps the strip is allowed freedom for its resilience, the first such gap being encountered at the free ends of the limbs of the said
- [Price 4s. 6d.]

a wall with a trough section, the base 11 whereof is flat and the sides 12 are parallel. The base 11 is apertured at 13 for reception of fixing screws. The sides 12 have an overall width greater than the space between them. Each side 12 is U-shaped with a central opening 14, the limbs 15 of the U extending with free ends 16 remote from the base 11.

Extending in a sinuous path along each limb 15 between the sides 12 is a spring metal strip 17, in this example shown in two parts, one such part at the inner edge of each limb 15 of the U. Each such part is bolted at mid-length on to a cross-bar 18, being one of a pair welded by their ends to the inner faces of the sides 12. The opposing surfaces of the aforementioned parts of the strip 17 provide two gaps 19 of waisted form of width less

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Improvements in Clip-Action Stowage Brackets for
Elongated Articles, for example Small Arms

I, NOEL HENRY NASH, a British subject of 12, Billet Avenue, Waterlooville, Hampshire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to clip-action stowage brackets adapted to serve as a readily available means for stowing elongated articles, for example small arms such as rifles, Bren guns and the like, or other articles having a portion of shaft form, for example long brooms.

In connection with small arms it is now customary for personnel of army and other services to be equipped with a variety of small arm weapons and frequently the variety is such that it has become a problem to find the best means whereby compact space for quick and readily available stowage may be achieved. Thus, for example, to provide for each class of small arms can lead to complications and insecure stowage due to a wrong bracket being selected, and one object of the present invention is to provide a bracket in which rifles and the like of different types may be secured firmly in position in a manner which will enable them to be removed expeditiously.

Accordingly the present invention provides a clip-action stowage bracket comprising a substantially U or V-shaped rigid body incorporating a wall or like mounting rigid with the body, the limbs of the U or V carrying spring metal strip extending in a sinuous path along both limbs so that opposing surfaces of the strip provide a plurality of gaps of waisted form between themselves of width less than the distance between the limbs at the corresponding positions therealong, at each of which gaps the strip is allowed freedom for its resilience, the first such gap being encountered at the free ends of the limbs of the said

U or V and inwardly of free outer, mutually divergent, ends of the strip.

In a preferred form in accordance with the present invention, the body is duplicated as two substantially parallel plates spaced on one side of a common base plate substantially at right angles thereto, the U or V of the said two plates being opposite one another and the strip being carried between the said two plates.

In either form, the said surfaces of the strip may have a facing of deformable material, e.g. rubber or felt or leather.

The following is a description, by way of example, of several embodiments according to the present invention, one such embodiment being described with reference to the accompanying drawings wherein:—

Figures 1, 2 and 3 are plan, side and end views respectively of a clip-action stowage bracket; and,

Figures 4 and 5 are views corresponding to Figure 1 indicating the positions taken up by various small arms stowed in the bracket.

Referring to Figures 1 to 3, the bracket 10 may be composed of sheet metal pressed into a form with a trough section, the base 11 whereof is flat and the sides 12 are parallel. The base 11 is apertured at 13 for reception of fixing screws. The sides 12 have an overall width greater than the space between them. Each side 12 is U-shaped with a central opening 14, the limbs 15 of the U extending with free ends 16 remote from the base 11.

Extending in a sinuous path along each limb 15 between the sides 12 is a spring metal strip 17, in this example shown in two parts, one such part at the inner edge of each limb 15 of the U. Each such part is bolted at mid-length on to a cross-bar 18, being one of a pair welded by their ends to the inner faces of the sides 12. The opposing surfaces of the aforementioned parts of the strip 17 provide two gaps 19 of waisted form of width less

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than the width between the inner edges of the limbs 15 at the corresponding positions therealong. The first or outer such gap 19 is encountered at the free ends 16 of the limbs 15 of the U and inwardly of the outer ends 20 of the strip which are mutually divergent and free. The second or inner gap 19 is at a position where the inner edges of the limbs 15 begin to curve towards the base of the opening 14. The inner ends 21 of the strip 17 are also mutually divergent and free. Thus, as the strip parts are fixed merely at their mid-lengths, the gaps 19 can be enlarged by encounter with, say, a rifle stock pushed into the U-openings 14 of the respective sides 12 from their open ends. Dependent on the cross-section of the stock and perhaps convenience the stock can be stowed at a position between the gaps 19 or between the second gap 19 and the base of the U opening 14.

Examples of how three or four different types of small arms may be accommodated are indicated in Figures 4 and 5. One type, e.g. a Bren gun, can be stowed with its stock 22 held at the inner gap 19. Another type of weapon, e.g. a Lee Enfield rifle 23 can be stowed being held at both gaps 19 and engaging the base of the U-shaped bracket. An F.N. rifle 24 can be stowed in another position where it is held at both gaps 19. A Sterling small arm 25 may also be stowed being held at the inner gap.

The spring metal strip preferably has a cushioning facing of deformable material, for example rubber, felt or leather, shown in the drawings in the form of a strip 26. The strip 26 is secured on the opposing faces of the metal strip 17 by a rivet 27 at the free ends 20 and is clamped between the bars 18 and the metal strip 17. A mid-length portion 28 of the cushioning strip 26 is free and may be supported by a backing bar 29 welded by its ends to the inner faces of the sides 12.

If desired, the said two bars 18 may also have a cushioning facing on their opposed faces.

As a possible variation, the openings 14 may be V shaped. Further, the spring strip, instead of being two-part, may be as one part having a free mid-length portion following more or less the curvature of the portion 28 of the cushioning strip 26.

In another embodiment of the present invention the bracket may comprise a shallow or wide trough-section base with holes for receiving screws to attach it to a wall or other surface. Welded to the side limbs of the base is a forwardly projecting pair of channel section metal plates. The width of each such plate is greater than its depth. Their opposed flat faces are so spaced that they will afford accommodation for the small arms when engaged with the sinuous spring strip in two parts as aforementioned. In this case, such strip parts may have their mid-length por-

tions secured to a bar obtained by removing from the side plates a pair of holes. The convex portions of the spring strip extend through the front holes. These are completely open so that the free outer ends of the spring strip are displaceable outwardly when a weapon is pressed between the clips. The inner ends of the clips are likewise displaceable by allowing a slight clearance at the rear edge of the two rear holes. A rubber abutment member may also be fitted against the bracket base and adapted, as aforesaid, to receive the pressure of the weapon being held in position.

In a further embodiment, the bracket may be a casting in the form of a U and having an outwardly flanged base. The sides of the U are formed with integral stiffening webs joining their front ends to the outer edges of the flanges. The sides of the U are provided with holes as in the embodiment just described to accommodate the bends or bows of the two parts of the spring strip rivetted or otherwise secured to the parts of the bracket interposed between the holes for the spring strip, whereas an arcuate line of rubber or other suitable cushioning material is secured across the opposed limbs of the bracket.

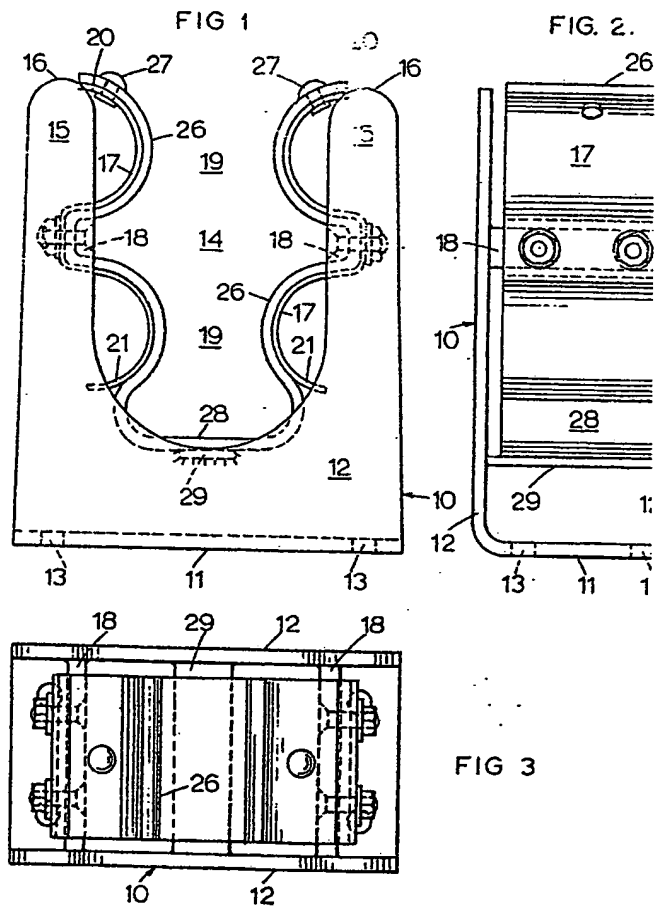
Also, in a further embodiment, the mounting is a pressing of trough section, the base of which may be shortened by cutting off the lower corners of the sides at an angle and across the trough section. The base is apertured for reception of mounting screws. A hole for a bolt is also formed through each end at the upper extremity of each side of the trough as later mentioned. Moreover, the upper edge of each side is recessed centrally for engagement with the curved base of a U-shaped bracket member. The member is made from material of channel section. Its flanges extend outwardly of the U and the recessed upper edges of the mounting engage snugly between them. The bracket member is held in position by bolts extending through the holes in the aforementioned sides and through corresponding holes in the flanges of the bracket member. The web of the channel section material is removed but for a cross-piece (corresponding in position with backing bar 29) at the base of the U and a cross-piece about half-way along each limb of the U (corresponding in position with the cross-members 18). Spring strip and cushioning strip of form corresponding to that in the drawings are secured in corresponding positions.

WHAT I CLAIM IS:—

1. A clip-action stowage bracket comprising a substantially U or V-shaped rigid body incorporating a wall or like mounting rigid with the body, the limbs of the U or V carrying spring metal strip extending in a sinuous path along both limbs so that opposing surfaces of the strip provide a plurality of gaps of waisted form between themselves of width less than

- the distance between the limbs at the corresponding positions therealong, at each of which gaps the strip is allowed freedom for its resilience, the first such gap being encountered at the free ends of the limbs of the said U or V and inwardly of free outer, mutually divergent, ends of the strip.
- 5 2. A bracket according to claim 1, wherein the body is duplicated as two substantially parallel plates spaced on one side of a common base plate substantially at right angles thereto, the U or V of the said two plates being aligned with one another and the strip being carried between the two plates.
- 10 3. A bracket according to claim 1 or claim 2, wherein the said surfaces of the strip have a facing of deformable material, e.g. rubber, felt, or leather.
- 15 4. A clip-action stowage bracket for an elongated article, for example a small arm, constructed and arranged substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.
- 20 GEB & CO.
Chartered Patent Agents,
51/52, Chancery Lane, London, W.C.2.
and 22, Whitefriargate, Hull.
Agents for the Applicant.

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COMPLETE SPECIFICATION

2 SHEETS

*This drawing is a reproduction of
the Original on a reduced scale
Sheets 1 & 2*

FIG. 2.

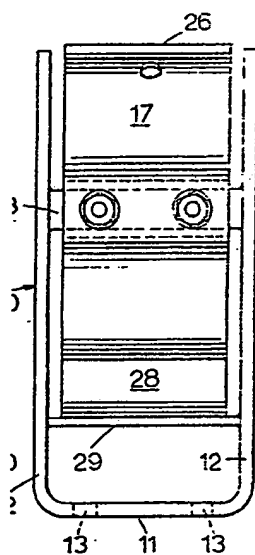


FIG 3

FIG. 4.

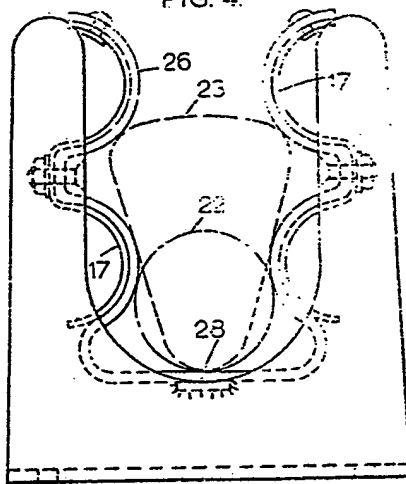
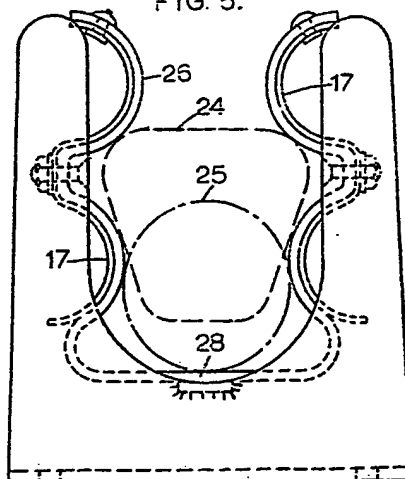


FIG. 5.



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